

exposing said therapeutic composition to said electrical field for a time and under conditions sufficient to enhance the therapeutic effect of said therapeutic agent in said host.

8. A method as recited in claim 7, wherein said lipid substance is a liposome.

9. A method as recited in claim 7, wherein said therapeutic agent comprises a chemotherapeutic agent.

10. A method as recited in claim 9, wherein said chemotherapeutic agent is a cytotoxin.

11. A method as recited in claim 10, wherein said cytotoxin is bleomycin.

12. A method as recited in claim 9, wherein said chemotherapeutic agent is a photosensitizer.

13. A method as recited in claim 12, wherein said photosensitizer is a hematoporphyrin derivative.

14. A method as recited in claim 7, wherein said therapeutic agent comprises a nucleic acid molecule.

15. A method as recited in claim 14, wherein said nucleic acid molecule is DNA.

16. A method as recited in claim 7 further comprising:

exposing said therapeutic composition to said electrical field for a time and under conditions sufficient to enhance either the migration of said composition to said predetermined region or the adsorption of said composition to cell membranes located within said region prior to exposing said therapeutic composition to said electrical field to enhance the therapeutic effect of said therapeutic agent in said host.

17. A method as recited in claim 7 wherein said electrical field is established by a system comprising:

a plurality of electrodes located so as to define the predetermined region in said host, said electrodes arranged to provide at least one reference electrode in electrically-conductive communication with at least one satellite electrode; and

electrical pulse generating means incorporating control means connected to at least two of said plurality of electrodes.

B7. 18. A method as recited in claim 17, said control means further comprising means to control the electrical parameters and temporal relationship of the electrical pulses applied to each of said electrodes.

19. A method as recited in claim 18, wherein said control means comprises a digital computer.

20. A method as recited in claim 17, wherein said control means can apply electrical pulses of different polarity to selected electrodes so as to redefine the reference and satellite relationship as between the plurality of electrodes.--

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